REMOTELY CONTROLLING BOOT SETTINGS IN A SERVER BLADE ENVIRONMENT

Abstract of Disclosure

A method and system for storing and configuring CMOS setting information remotely in a server blade environment. The system includes a management module configured to act as a service processor to a data processing configuration comprising a set of one or more server blades sharing common resources such as system power and cooling fans. The management module includes persistent storage in which is stored a table containing CMOS setting information for each server blade in the configuration. Each server blade includes boot block software that executes when the blade is booted after power-on or system reset. The boot block software initiates communication with the management module and retrieves its CMOS settings from the management modules CMOS setting table. In this manner, CMOS settings for a particular blade location in the configuration remain unchanged each time a blade is replaced or upgraded. In one embodiment, the management module and server blades implement a programming interface that includes command abstractions corresponding to each CMOS setting. In this embodiment, the management module sends command abstractions to each server blade during the CMOS configuration process. The server blade is configured to interpret the commands and map the commands to specific CMOS bit addresses thereby making the specific CMOS implementation employed by any server blade transparent to the management module.

Figures